REMARKS

This Application has been carefully reviewed in light of the Office Action mailed July 3, 2002. In order to advance the prosecution of this Application, Applicants have responded to each issue raised by the Examiner. Applicants respectfully request reconsideration, further examination, and favorable action in this case.

I. INFORMATION DISCLOSURE STATEMENT

Applicants filed an Information Disclosure Statement ("IDS") on March 12, 1999. The Examiner has not indicated whether the references listed in the IDS have been considered. Applicants respectfully request that the Examiner indicate in the next official paper whether the references listed in the IDS have been considered.

II. 35 U.S.C. § 112 REJECTIONS

The Examiner rejects Claims 1-22 under 35 U.S.C. § 112 because of various informalities.

Applicants have amended Claims 1, 3, 9, and 16 to correct many of the informalities noted by the Examiner. These amendments do not narrow the scope of the claims.

The Examiner rejects Claim 1 because the Examiner did not understand "the relationship between the node and the second parent node." (*Office Action, Page 2, Paragraph 3(b)(i)*). Applicants respectfully note that Claim 1 recites "dynamically associating a second parent node with the node." As a result, Claim 1 is clear in that there is an association between the second parent node and the node. While Claim 1 may not recite a specific type of association between the second parent node and the node, this is not needed for Claim 1 to meet the requirements of 35 U.S.C. § 112.

For at least these reasons, Applicants respectfully request withdrawal of the rejection of Claims 1-22.

III. 35 U.S.C. § 103 REJECTIONS

The Examiner rejects Claims 1-3, 5-10, 12-17, and 19-22 under 35 U.S.C. § 103(a), as being unpatentable over U.S. Patent No. 5,948,063 by Cooper et al. ("*Cooper*"). The Examiner also rejects Claims 4, 11, and 18 under 35 U.S.C. § 103(a), as being unpatentable over *Cooper* in view of U.S. Patent No. 6,349,334 by Faupel et al. ("*Faupel*"). Applicants respectfully traverse these rejections for the reasons discussed below.

Amended Claim 1 recites a method for modeling behavior of elements in a telecommunications network, which includes:

> providing a node representing a network element;
> storing in the node a first service state for the node;
> storing in the node a second service state for a first parent node upon which the node is operationally dependent;
> in response to a triggering occurrence, dynamically associating a second parent node with the node;
> storing in the node a third service state for the second parent node; and
> in response to receiving at least one of a new second service state and a new third service state, redetermining the first service state for the node using at least one of the new second service state and the new third service state.

Cooper discloses a "client station and method for controlling a telecommunications system." (*Abstract*). The telecommunications system includes "a site controller (SC) 56," which is also called "server 56." (*Col. 7, Line 66 - Col. 8, Line 1*). The server 56 "maintains an object based control structure," which is referred to as "object model 82," for enabling "control of the wireless telecommunications system." (*Col. 8, Lines 17-23*). A client station 64 may establish a connection with the server 56 so that the client station 64 can "manage the object model maintained on the server." (*Abstract*). The client station 64 can store "a portion of the object model 82" in an object cache 92. (*Col. 12, Lines 15-23*).

The Examiner asserts that *Cooper* discloses storing a "service state for a first parent node upon which the node is operationally dependent (col. 13, lines 47-59; col. 14, lines 8-15" and a "service state for the second parent node (col. 13, lines 49-53)." (*Office Action, Page 4, Paragraphs 4-5*). Applicants respectfully traverse these assertions.

Two of the cited portions of *Cooper* (column 13, lines 47-59 and lines 49-53) disclose how "an operation [that] is applied to the object model 64 ... may also be applied to the object structure maintained in the object cache 92." The other cited portion of *Cooper* (column 14, lines 8-15) discloses how a "base class provides an array of derived classes listing all parents and children in the object model 82."

The Examiner has not shown that the object model 82 of *Cooper* includes a "node" that stores the "service states" of multiple "parent nodes" as recited in Claim 1. In fact, the Examiner has not shown that any object in the object model 82 stores the status of any parent nodes. Also, the Examiner has not explained how applying an operation to both the object model 64 and the object cache 92 discloses storing in a "node" the "service states" of multiple "parent nodes" as recited in Claim 1. In addition, the Examiner has not shown that *Cooper* discloses using the base class to store the "service states" of multiple "parent nodes" as recited in Claim 1. As a result, the Examiner has not shown that *Cooper* discloses these elements of Claim 1.

The Examiner also asserts that *Cooper* does not disclose "dynamically associating a second parent node with the node" in response to a triggering event. (*Office Action, Page 4, Paragraph 7*). The Examiner then asserts this would be obvious because *Cooper* discloses that a "second node is used if a failure of [the] first node occurs (col. 8, lines 43-48; col. 22, lines 48-53)." (*Office Action, Page 4, Paragraph 7*).

The first portion of *Cooper* (column 8, lines 43-48) cited by the Examiner discloses how a sixteenth modem in a modem shelf may be "used as a spare which can be switched in if a failure of one of the other 15 modems occurs." However, the Examiner has not shown that *Cooper* dynamically associates a parent node in the object model 82 with a node through the use of a backup modem. As a result, the Examiner has not shown that the use of a backup modem involves "dynamically associating a ... parent node with the node" as recited in Claim 1.

The second portion of *Cooper* (column 22, lines 48-53) cited by the Examiner discloses how a reconfigurable interface allows "published services to be changed

dynamically at run time." The Examiner has not explained how dynamically changing published services is the equivalent of "dynamically associating a ... parent node with the node" as recited in Claim 1.

For at least these reasons, Claim 1 is patentable. Applicants respectfully request withdrawal of the rejection and full allowance of Claim 1, and Claims 2-8 depending from Claim 1.

Amended Claim 9 recites a method for modeling behavior of elements in a telecommunications network, which includes:

> providing a node representing a network element;
> storing in the node a first service state for the node;
> storing in the node a second service state for each of a plurality of parent nodes upon which the node is operationally dependent; and
> in response to receiving at least one new second service state for at least one of the plurality of parent nodes, redetermining the first service state for the node using the at least one new second service state.

As described above, the Examiner has not shown that *Cooper* discloses storing in a node a "service state for each of a plurality of parent nodes upon which the node is operationally dependent" as recited in Claim 9.

For at least these reasons, Claim 9 is patentable. Applicants respectfully request withdrawal of the rejection and full allowance of Claim 9, and Claims 10-15 depending from Claim 9.

Amended Claim 16 recites a network control system for modeling behavior of elements in a network, which includes:

> a node representing a network element;
> a state store in the node for storing a first service state for the node;
> a parent state store in the node for storing second service states for a plurality of parent nodes upon which the node is operationally dependent; and

wherein the first service state for the node is dependent upon the second service states of the plurality of parent nodes.

As described above, the Examiner has not shown that *Cooper* discloses storing "service states for a plurality of parent nodes upon which the node is operationally dependent" as recited in Claim 16.

For at least these reasons, Claim 16 is patentable. Applicants respectfully request withdrawal of the rejection and full allowance of Claim 16, and Claims 17-22 depending from Claim 16.

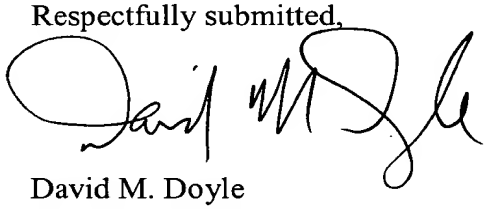
CONCLUSION

Applicants have made an earnest attempt to place this case in condition for allowance. For the foregoing reasons and for other reasons clearly apparent, Applicants respectfully request reconsideration and full allowance of all pending claims.

If the Examiner feels that a telephone conference or an interview would advance prosecution of this Application in any manner, the undersigned attorney for Applicants stands ready to conduct such a conference at the convenience of the Examiner.

Applicants do not believe that any fees are due. However, the Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 19-2179 of Siemens Corporation.

Respectfully submitted,



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MARKED UP VERSION OF AMENDED CLAIMS

1. **(Amended)** A method for modeling **[the]** behavior of elements in a telecommunications network, comprising:

providing a node representing a network element;

storing in the node a **first** service state for the node;

storing in the node a **second** service state for a first parent node upon which the node is operationally dependent;

in response to a triggering occurrence, dynamically associating a second parent node with the node;

storing in the node a **third** service state for the second parent node; and

in response to receiving **at least one of** a new **second** service state **and a new third service state [for one of the parent nodes]**, redetermining the **first** service state for the node **[based on] using at least one of** the **new second** service state**[s] and the new third service state [for the parent nodes]**.

3. **(Amended)** The method of Claim 1, wherein the network element is a physical element in the **telecommunications** network and the parent nodes represent physical elements in the **telecommunications** network.

9. **(Amended)** A method for modeling **[the]** behavior of elements in a telecommunications network, comprising:

providing a node representing a network element;

storing in the node a **first** service state for the node;

storing in the node a **second** service state for each of a plurality of parent nodes upon which the node is operationally dependent; and

in response to receiving **[a] at least one** new **second** service state for **[any] at least one** of the **plurality of** parent nodes, redetermining the **first** service state for the node **[based on] using** the **at least one new second** service state**[s] [for each of the parent nodes]**.

16. **(Amended)** A network control system for modeling **[the]** behavior of elements in **[the]** **a** network, comprising:

a node representing a network element;

a state store in the node for storing a **first** service state for the node;

a parent state store in the node for storing **[a]** **second** service state**s** for **[each of]** a plurality of parent nodes upon which the node is operationally dependent; and

wherein the **first** service state for the node is dependent upon the **second** service states of the **plurality of** parent nodes.